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- 1 [A study of the development of students' visualizations of program state during an elementary object-oriented programming course](#)



[Jorma Sajaniemi](#), [Maria Kulttinen](#), [Taina Tikansalo](#)

January 2008 **Journal on Educational Resources in Computing (JERI C)**, Volume 7 Issue 4

Publisher: ACM

Full text available: [Pdf](#) (345.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 163, Citation Count: 0

Students' understanding of object-oriented (OO) program execution was studied by asking students to draw a picture of a program state at a specific moment. Students were given minimal instructions on what to include in their drawings in order to see ...

Keywords: CS1/2, mental representation, object-oriented programming, program state, visualization

- 2 [Using free web storage for data backup](#)



[Avishay Traeger](#), [Nikolai Joukov](#), [Josef Sipek](#), [Erez Zadok](#)

October 2006 **StorageSS '06: Proceedings of the second ACM workshop on Storage security and survivability**

Publisher: ACM

Full text available: [Pdf](#) (205.78 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 215, Citation Count: 0

Backing up important data is crucial. A variety of causes can lead to data loss, such as disk failures, administration errors, virus infiltration, theft, and physical damage to equipment. Users and businesses have important information that is difficult ...

Keywords: backup, web services

3 [The elements of nature: interactive and realistic techniques](#)



[Oliver Deussen](#), [David S. Ebert](#), [Ron Fedkiw](#), [F. Kenton Musgrave](#), [Przemyslaw Prusinkiewicz](#), [Doug Roble](#), [Jos Stam](#), [Jerry Tessendorf](#)

August 2004 **SIGGRAPH '04: SIGGRAPH 2004 Course Notes**

Publisher: ACM

Full text available: Pdf (17.65 MB)

Additional Information: [full citation](#), [abstract](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 236, Downloads (12 Months): 1403, Citation Count: 1

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives ...

4 [An ethnocentric look at the law and technology interface](#)



[Leona F. Fass](#)

January 2008 **SIGSOFT Software Engineering Notes**, Volume 33 Issue 1

Publisher: ACM

Full text available: Pdf (334.20 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 217, Citation Count: 0

We often conduct ethnocentric research, observing everyday citizen end-users in their own environments to assess their access, technological and policy concerns. Our recent research has revealed that many end-user concerns are on the interface of Law ...

Keywords: Technology policy, barriers to access, computing environments, engineering ethics, ethnocentric software engineering, human-web interaction, information integrity, privacy, security

5 [MobileNAT: a new technique for mobility across heterogeneous address spaces](#)

[Milind Buddhikot](#), [Adiseshu Hari](#), [Kundan Singh](#), [Scott Miller](#)

June 2005 **Mobile Networks and Applications**, Volume 10 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: Pdf (1.60 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 85, Citation Count: 0

We propose a new network layer mobility architecture called MOBILENAT to efficiently support micro and macro-mobility in and across heterogeneous address spaces common in emerging public networks. The key ideas in this architecture are as follows: (1) ...


Keywords: MOBILENAT, design, experimentation, mobility

6 From service configuration through performance monitoring to fault detection: implementing an integrated and automated network maintenance platform for enhancing wide area transaction access services

Symeon Papavassiliou, Mike Pace

September 2000 **International Journal of Network Management** , Volume 10 Issue 5

Publisher: John Wiley & Sons, Inc.

Full text available:  Pdf (961.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 82, Citation Count: 0

The design and implementation of integrated and automated network-service management platforms that can seamlessly configure services, monitor service-network performance, and detect network faults are of great importance and interest to ...



7 Principles for digital library development



Alexa T. McCray, Marie E. Gallagher

May 2001 **Communications of the ACM** , Volume 44 Issue 5

Publisher: ACM

Full text available:  Html (30.23 KB),  Pdf (134.13 KB) Additional Information: [full citation](#), [appendices and supplements](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 423, Citation Count: 3


8 Controlled and cooperative updates of XML documents in byzantine and failure-prone distributed systems



Giovanni Mella, Elena Ferrari, Elisa Bertino, Yunhua Koglin

November 2006 **Transactions on Information and System Security (TISSEC)** , Volume 9 Issue 4

Publisher: ACM

Full text available:  Pdf (1.32 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 87, Citation Count: 0

This paper proposes an infrastructure and related algorithms for the controlled and cooperative updates of XML documents. Key components of the proposed system are a set of XML-based languages for specifying access-control policies and the path that ...

Keywords: Byzantine and distributed systems, XML documents, policy languages, updates

9 [Scanning electronic documents for personally identifiable information](#)



[Tuomas Aura](#), [Thomas A. Kuhn](#), [Michael Roe](#)

October 2006 **WPES '06: Proceedings of the 5th ACM workshop on Privacy in electronic society**

Publisher: ACM

Full text available: Pdf (346.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 58, Citation Count: 0

Sometimes, it is necessary to remove author names and other personally identifiable information (PII) from documents before publication. We have implemented a novel defensive tool for detecting such data automatically. By using the detection tool, we ...

Keywords: metadata, personally identifiable information, privacy

10 [Organizing and managing personal electronic files: A mechanical engineer's perspective](#)



[B. J. Hicks](#), [A. Dong](#), [R. Palmer](#), [H. C. Mcalpine](#)

September 2008 **Transactions on Information Systems (TOIS)** , Volume 26 Issue 4

Publisher: ACM

Full text available: Pdf (3.71 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 197, Downloads (12 Months): 197, Citation Count: 0

This article deals with the organization and management of the computer files handled by mechanical engineers on their personal computers. In engineering organizations, a wide variety of electronic files (documents) are necessary to support both business ...

Keywords: Engineers, directory and file naming conventions, file sharing and file recognition and recall, information management

11 [Nanites: an approach to structure-based monitoring](#)



[Kenneth J. Rodham](#), [Dan R. Olsen, Jr.](#)

June 1997 **Transactions on Computer-Human Interaction (TOCHI)** , Volume 4 Issue 2

Publisher: ACM

Full text available: Pdf (336.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 27, Citation Count: 1

The focal point of many interactive systems is an information artifact being created and manipulated by one or more users through a user interface. The software components of such an interactive system perform their tasks relative to the data structures ...

Keywords: CSCW, Nanites, multiuser interfaces, user interface software

12 [tranSticks: physically manipulatable virtual connections](#)



[Yuji Ayatsuka, Jun Rekimoto](#)

April 2005 **CHI '05: Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM

Full text available: [Pdf](#) (579.25 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 63, Citation Count: 2

A virtually connected medium called *tranStick* is described that functions both as a "virtual wire" and as a "memory card" containing a shared space. A user can connect two networked devices by simply placing one of a pair of tranSticks with the ...

Keywords: connection control, tangible user interface

13 [TCP/IP and security software applications](#)

[William Natale](#)

April 2001 Proceedings of the seventh annual consortium for computing in small colleges central plains conference on The journal of computing in small colleges

Publisher: Consortium for Computing Sciences in Colleges

Full text available: [Pdf](#) (67.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 146, Citation Count: 0

The TCP/IP protocol suite refers to a family of protocols. The designers of TCP/IP divided the job of a full protocol suite into a number of tasks delineated as layers (show in Figure 1 below). Each layer has a different, but specific task in communication. ...

Also published in:

April 2001 Proceedings of the twelfth annual CCSC South Central conference on The journal of computing in small colleges

March 2001 **Journal of Computing Sciences in Colleges**

Volume 16 Issue 3

14 [Adaptive hypermedia through contextualized open hypermedia structures](#)



[Christopher Bailey, Wendy Hall, David E. Millard, Mark J. Weal](#)

October 2007 **Transactions on Information Systems (TOIS)** , Volume 25 Issue 4

Publisher: ACM

Full text available: [Pdf](#) (1.85 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 291, Citation Count: 0

The aim of this article is to produce an alternative view of the adaptive hypermedia (AH) domain from a contextually-aware open hypermedia (OH) perspective. We believe that a wide range of AH techniques can be supported with a small number of OH structures, ...

Keywords: Adaptive techniques, FOHM, adaptive hypermedia, hypermedia structure, open hypermedia

15 ["Physical hypermedia": organising collections of mixed physical and digital material](#)



[Kaj Grønbaek](#), [Jannie F. Kristensen](#), [Peter Ørbæk](#), [Mette Agger Eriksen](#)

August 2003 **HYPERTEXT '03:** Proceedings of the fourteenth ACM conference on Hypertext and hypermedia

Publisher: ACM

Full text available: Pdf (841.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 90, Citation Count: 17

This paper addresses the problem of organizing material in mixed digital and physical environments. It presents empirical examples of how people use collectional artefacts and organize physical material such as paper, samples, models, mock-ups, plans, ...

Keywords: augmented reality, collections of materials, physical and digital, spatial hypermedia, tagging

16 [Deterministic handover in open broadband access networks](#)



[J. Charles Francis](#), [Alexander Zurkinden](#)

September 2006 **BWAN '06:** Proceedings of the 2006 workshop on Broadband wireless access for ubiquitous networking

Publisher: ACM

Full text available: Pdf (411.17 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 52, Citation Count: 0

Open Broadband Access Networks are an innovative approach to establish high capacity mobile networks, whereby private Wireless Local Area Networks and associated access lines are made available for public use. In this vision, public mobile users share ...

17 [Dynamic names and private address maps: complete self-configuration for](#)



[MANETs](#)

[Christophe Jelger](#), [Christian Tschudin](#)

December **CoNEXT '06**: Proceedings of the 2006 ACM CoNEXT conference
2006

Publisher: ACM

Full text available: [Pdf](#) (312.76 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 31, Citation Count: 0

In this paper we propose a self-configuring framework for mobile ad hoc networks (MANETs). Our architecture is based on the degenerated use of network address translation (NAT) where each node locally builds its "private address map", i.e. its own view ...

Keywords: MANET self-configuration, address autoconfiguration, name autoconfiguration

18 [A mobile SIP: IP mobility support using SIP](#)



[Chai Kiat Yeo](#), [Bu Sung Lee](#), [Feng Zhong](#)

January **ICUIMC '08**: Proceedings of the 2nd international conference on
2008 Ubiquitous information management and communication

Publisher: ACM

Full text available: [Pdf](#) (161.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 102, Citation Count: 0

Mobile IP has been around for some time but has yet to make a major impact. This is due partly to the infrastructure set-up required. In this paper, we describe Mobile SIP (MSIP), which uses the widely deployed SIP server together with an innovative ...

Keywords: IP mobility, IP-to-IP address mapping, SIP, mobile IP

19 [Proof linking: modular verification of mobile programs in the presence of lazy.](#)



[dynamic linking](#)

[Philip W. L. Fong](#), [Robert D. Cameron](#)

October **Transactions on Software Engineering and Methodology**
2000 **(TOSEM)** , Volume 9 Issue 4

Publisher: ACM

Full text available: [Pdf](#) (233.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 27, Citation Count: 1

Although mobile code systems typically employ link-time code verifiers to protect host computers from potentially malicious code, implementation flaws in the verifiers may still leave the host system vulnerable to attack. Compounding the inherent complexity ...

Keywords: Java, correctness conditions, dynamic linking, mobile code, modularity, proof linking, safety, verification protocol, virtual machine architecture

20 [Software engineering applications of logic file system: application to automated multi-criteria indexation of software components](#)



[Benjamin Sigonneau, Olivier Ridoux](#)

May 2006 **MSR '06: Proceedings of the 2006 international workshop on Mining software repositories**

Publisher: ACM

Full text available: [Pdf](#) (2.34 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 49, Citation Count: 0

Logic information systems use formal concept analysis in a novel way to manage information. A file system implementation has been designed under the name of Logic file system. It offers a flexible management of non-hierarchical data. We present several ...

Keywords: logic information system, software components

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